Table 4. Field description of synoptic-sampling sites, Daisy Creek and Stillwater River drainage, Montana, August 19-20, 1999

[Site number indicates distance downstream from tracer-injection site, in feet. pH and specific-conductance values measured on August 19-20, 1999, prior to start of tracer injection. Type: I, surface-inflow sampling site; M, mainstem sampling site; R, non-sampling site, included for remark. Symbol: <, less than; --, no data. Site names [in brackets] are names used for sampling sites in previous studies (URS Operating Services, Inc., 1998). The terms right bank and left bank refer to the side of Daisy Creek or the Stillwater River viewed while looking downstream. Abbreviations: ft^3/s , cubic feet per second; ft, feet; gpm, gallons per minute; $\mu\mathrm{S}/\mathrm{cm}$, microsiemens per centimeter at 25 degrees Celsius; SC, specific conductance]

Site number (fig. 2)	Туре	General site description transcribed from field notes	pH (stan- dard units)	Specific conduct-ance, field (µS/cm)	Station-identification number ¹
0	M	Tracer-injection site [DCT-6]; no sign of iron or	8.1	204	450327109572901
74	I	other metals; SC is 249 μS/cm in right-bank tributary above site 0, 156 μS/cm in left-bank tributary, and 174 μS/cm in Daisy Creek above tributaries Right-bank inflow [DCT-7]; about 0.1 ft ³ /s; this tributary flows past south side of moraine or land-	7.7	254	450327109573001
		slide hill; aluminum staining; seep from hill has pH of 5.3 and SC of 370 µS/cm; inflow above hill has pH of 6.5 and SC of 262 µS/cm		• • •	
104	M	Daisy Creek downstream of site 0; poor mixing; aluminum stain on bed; tracer-monitoring site T-1		240	450327109573002
114	I	Right-bank seep; about 5 gpm; comes from stream side prospect pit	4.7	540	450327109573003
129	I	Left-bank seep; looks metal free; about 2 gpm		130	450327109573101
161	I	Right-bank seep; small manganese bog in seep area; inflow causes aluminum stain on right bank of Daisy Creek	4.1	700	450327109573102
177	M	Daisy Creek; aluminum stain in middle of channel; iron precipitate on right side	6.8	273	450327109573103
	R	Left-bank seep		130	
	R	Left-bank seep; iron stain in inflow		117	
270	M	Daisy Creek; aluminum stain; bed is coarse sand to cobbles	7.1	271	450327109573201
292	I	Right-bank inflow; upper inflow from manganese bog; about 6 gpm	2.9	1,750	450327109573202
325	R	Left-bank inflow; <1 gpm; bed of Daisy Creek is solid ferricrete from 292 to 348 ft and beyond			
348	I	Right-bank inflow; about 2 gpm; middle inflow from manganese bog	2.6	2,440	450327109573301
360	M	Daisy Creek, smooth, solid ferricrete bed; alumi num stained; sites 270 and 360 bracket upper two manganese bog inflows	4.4		450327109573302
401	I	Right-bank inflow; lower inflow from manganese bog; iron precipitate on right bank of Daisy Creek from this inflow; thick aluminum precipitate on rest of Daisy Creek bed	2.4	2,600	450327109573401
402	Ι	Left-bank inflow; ferricrete in channel; site 401 has about 55 percent of combined inflow from sites 401 and 402 based on visible estimate	7.6	145	450327109573402
411	R	Right-bank inflow; not sampled		² 1,820	

Site number (fig. 2)	Type	General site description transcribed from field notes	pH (stan- dard units)	Specific conduct-ance, field (µS/cm)	Station-identification number ¹
425	M	Daisy Creek; ferricrete channel; iron precipitate on right half of channel; aluminum precipitate on left half	3.6	458	450327109573403
432	I	Left-bank inflow	8.3	180	450327109573404
460	M	Daisy Creek; site is 4 ft below a ferricrete waterfall	4.5	430	450327109573501
475	R	Left-bank inflow; seepage like site 432; <1 gpm			
481	I	Right-bank inflow [DCT-8]; inflow splits into 3 forks near Daisy Creek; sample upstream at DCT-8 post where inflow is 1 channel; Daisy Creek below second fork has heavy iron precipitate; no aluminum precipitate	2.7	1,653	450327109573502
546	R	Left-bank inflow; seepage from left-bank wetland is continuous between sites 481 and 611; looks metal free; source of water is snow bank on flank of Crown Butte	7.0	212	450327109573601
611	M	Daisy Creek [DC-1]	3.2		450327109573701
686	I	Left-bank inflow; 1 ft wide channel; about 2 gpm	7.3	231	450327109573801
691	I	Right-bank inflow [DCT-9]; about 8 gpm; this drainage starts at McLaren Mine	2.2	645	450327109573802
761	I	Right-bank inflow; about 2 gpm	2.9	438	450327109573901
	R	Daisy Creek bed is solid ferricrete, very few pebbles showing; completely iron stained; water is clear			
804	I	Right-bank inflow; drainage starts within 75 ft of Daisy Creek	3.2	304	450327109573902
819	M	Daisy Creek; stream gradient is relatively flat from manganese bog to point downstream of here; some left-bank inflows between this site and site 691 but no sites flagged; no sign of metals in these left-bank inflows	3.0	814	450326109573901
824	I	Left-bank inflow, about 10 gpm; not flagged for sampling; three more left-bank inflows with SC of 260-300 μS/cm between this site and site 928		240	450326109573902
928	I	Left-bank inflow, about 25 gpm; aluminum stain on left-bank margin of Daisy Creek, otherwise iron stain on bed of Daisy Creek	8.1	333	450326109574101
1,010	I	Left-bank inflow; no flag; about 5 gpm		224	
1,082	M	Daisy Creek; water no longer clear in stream; cloudy with colloids	3.7	593	450327109574301
1,082	R				
1,189	I	Right-bank inflow; no visible inflow on either bank downstream from site 1,082 [DCT-17]	4.2	198	450327109574401
1,340	M	Daisy Creek [DCAB, DNRC-109]; this is down- stream end of flat portion of Daisy Creek valley; creek enters bouldery, steep section below this site; tracer-monitoring site T-2	3.7	580	450328109574601
1,545	I	Left-bank inflow; about 1 gpm	6.5	175	450329109574902
1,549	R	Right-bank inflow; aluminum stain on seep channel; seep starts 50 ft upslope; about 1 gpm; not sampled on August 26 because site was dry	5.3	351	450329109574901
1,695	M	Daisy Creek; bouldery iron-stained bed	3.8	572	450330109575001
1,700	I	Right-bank inflow; [DCT-10 and DCT-14 located upstream in this tributary]; iron stained; cloudy and orange with colloids	3.6	372	450330109575002
1,865	I	Right-bank inflow; about 3 gpm; 100-ft long drainage ditch bulldozed parallel to stream; this inflow is from ditch	7.9	216	450330109575201
1,915	I	Right-bank inflow; about 12 gpm; no iron or alu-	7.9	134	450330109575301

Site number (fig. 2)	Туре	General site description transcribed from field notes	pH (stan- dard units)	Specific conduct-ance, field (µS/cm)	Station-identification number ¹
2,334	M	Daisy Creek; orange, bouldery bed, cloudy water; pH may be higher	3.7	549	450331109575801
2,360	I	Right-bank inflow; no iron or aluminum stain; about 3 gpm	6.3	89	450331109575802
2,658	M	Daisy Creek [DC-2]; sample 40 ft downstream where there is one channel; bouldery bed; big gravel bars			450332109580201
2,958	R	Well MW-3 up above on right bank somewhere			
3,238	R	Right-bank inflow; about 2 gpm		61	
3,523	M	Daisy Creek [SW-1]	4.0	538	450336109581001
3,673	R	100-ft reach on limestone bedrock in channel; wet fractures might indicate ground-water inflow			
3,963	R	More limestone bedrock in channel			
4,283	M	Daisy Creek; bedrock has changed to sandstone			450340109581801
4,403	R	Waterfall, about 8 ft high			
4,533	R	End of visible bedrock on side slopes			
5,038	R	Dry left-bank inflow; spring runoff channel			
5,475	M	Daisy Creek; cobble/bouldery bed; iron staining; water is cloudy with colloids; about 0.5 ft ³ /s	4.4	523	450349109582801
5,519	I	Right-bank tributary; no metal staining	7.4	211	450349109582801
5,661	M	5,519	5.3	421	450349109583001
5,671	I	Left-bank tributary; looks metal free; about 0.4 ft ³ /s	7.6	165	450349109583002
5,839	M	Daisy Creek; lots of aluminum precipitate; about 1 ft ³ /s	6.6	315	450350109583201
6,439	R	Bedrock channel			
7,039	R	Sandy shale outcrop in channel			
7,324	M	cloudy water		312	450353109584601
7,529	I	Right-bank tributary [DCT-5]; looks metal free		145	450355109585201
7,829	M	Daisy Creek; old staff plate in channel; probably washed down from previous sampling site		301	450355109585601
8,700	R	Bedrock cascade			
9,688	I	Left-bank tributary; about 8 gpm; looks metal free		295	450357109592101
9,925	M	Daisy Creek [DC-5]; cloudy water; reach below here is out on valley flat and has relatively low gradient; tracer-monitoring site T-3		303	450359109592301
11,549	M	Daisy Creek at mouth		304	450403109593801
11,560	I	Stillwater River above Daisy Creek [STW-1]; sample about 100 ft above Daisy Creek; clear water; aquatic slime on bed (unlike Daisy Creek)		140	450403109593802
11,644	I	Left-bank tributary; little less flow than at site 11,560		122	450403109593901
11,890	M	Stillwater River below Daisy Creek; river changes from small willow-lined channel to broad flood plain with large gravel bars below Daisy Creek; water cloudy below Daisy Creek confluence		173	450406109593901
12,410	M	Stillwater River at Lake Abundance road crossing [STW-2]; cloudy water; 4.62 ft3/s measured with current meter; tracer-monitoring site T-4		176	450424109594301

¹Fifteen-digit station-identification number is a unique identifier that represents the approximate latitude and longitude location of the site (first 13 digits), plus a sequence number (last two digits).

²Specific conductance measured on August 26, 1999.